

**A System and Method of Partitioning Software Components of a Monolithic
Component-based Application Program to Separate Graphical User Interface
Elements for Local Execution at a Client System in Conjunction with Remote
Execution of the Application Program at a Server System**

5

Abstract

Described are a method and system of partitioning software components of a monolithic component-based application program to separate the graphical user interface elements of the software components for local execution at a client system in conjunction with remote execution of the application program at a server system. One or more software components of the application program are identified as a candidate for partitioning. A plurality of new software components corresponding to one of the identified software component candidates is generated at the server system. A protocol to be used by the generated new software components for communicating with each other during an execution of the application program is generated. One of the new software components is transmitted to the client for execution at the client system and for communication with one of the new software components at the server system using the generated protocol when the application program is executed.

10 2023836_1